

Application Profile

Project: AUTEC, US Navy Base, Andros Island, Bahamas

Project Contractor: F.S.I., Inc., Fort Myers, FL

Polyurea Applicator: F.S.I., Inc., Fort Myers, FL
Inspection / Project Monitoring by Primeaux Associates LLC

Polyurea System Applied: REA 203, V-tac Group

Substrate / Area: Concrete Secondary Containment, approx 26,000 ft²

Date: August, 2002

The main diesel and aviation fuel storage secondary containment area was not performing as had been designed. Several fuel spills within the area had managed to leak outside the secondary containment due to cracks and porosity of the concrete structure. As timing, due to weather conditions, was very important, the REA 203 polyurea spray system was chosen due to the excellent resistance to the contained fuels and rapid cure time / return to service.



The concrete area was in very poor condition. Previously applied paint was peeling from the concrete and areas around the main center tank had vegetation and trees growing. The vegetation was removed and the areas treated. The concrete was pressure washed using a hot aqueous solution of BioSolve to remove any contaminants and rinsed. As the concrete surface was in good condition and had a good texture for coating acceptance, abrasive blasting was not required. The complete area was primed with a water emulsifiable polyurethane primer for adhesion enhancement and reduction / elimination of concrete outgassing. The REA 203 polyurea system was then applied at a nominal thickness of 80 to 100 mils.

There were several days where the rain called for application interruptions. The fast / complete cure of the REA 203 polyurea system was unaffected by the rains. The REA 203 system has applied up and onto the large center tank to create a seamless, bonded containment membrane. Application was completed in less than one week.



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